CONFIGURATION MANUAL

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EVS/Avid FTP Server

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1. Introduction

1.1. Product Overview

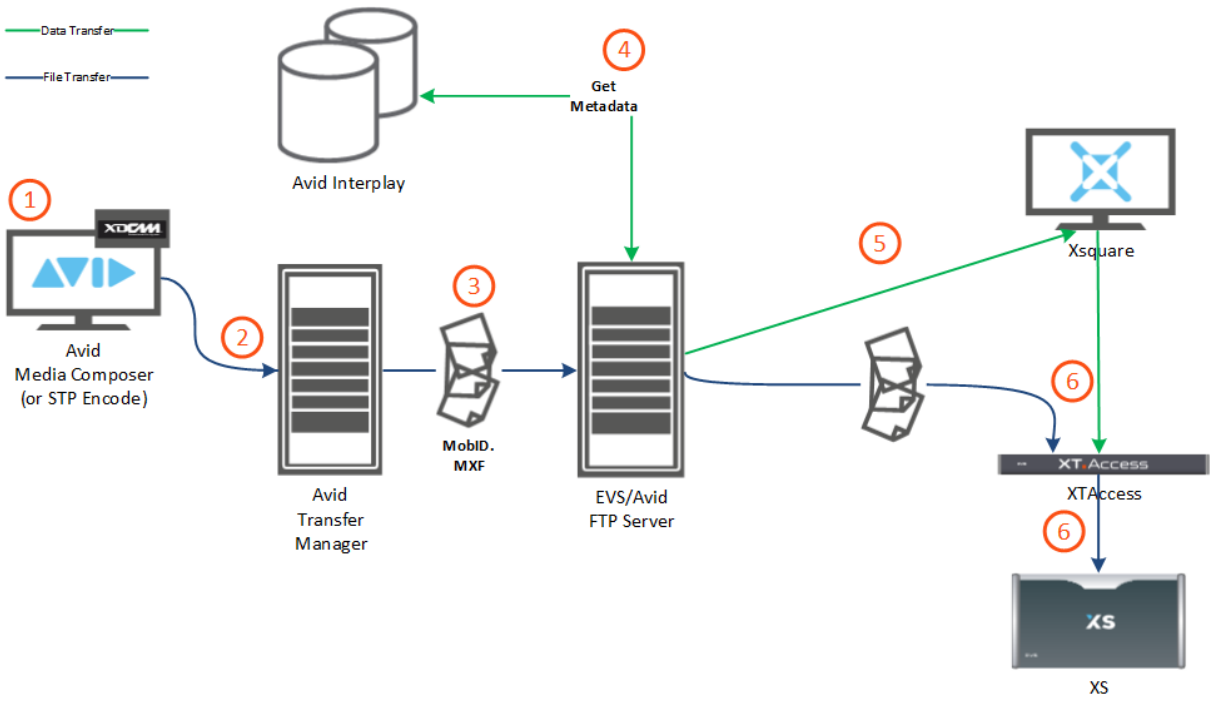
The EVS/Avid FTP server aims at providing a file transfer workflow for XDCAM media content that has been created in Avid and has to be made available on an EVS Video Server (or included in a workflow with EVS products).

This workflow supports the transfer of metadata (Tape ID, VARID and Sequence Name), and can therefore handle playlists created in IPDirector.

The EVS/Avid FTP server could theoretically be used for media content created in Intra codecs. For Intra media content, it is however recommended to use the standard file transfer workflow using the EVS Avid Tools and the Avid DHM.

1.2. Workflow Overview

This section presents the standard workflow with the EVS/Avid FTP server:



1. The user renders a video sequence in XDCAM on Avid Media Composer.

   Optionally, the XDCAM video sequence can be encoded via STP Encode so that the resources of the Avid Media Composer are not blocked while encoding the file.

2. The user sends the video sequence to Avid Transfer Manager via a **Send to** command.
3. The Avid Transfer Manager (TM) sends an FTP request to the EVS/Avid FTP server.

   Avid TM transfers the video sequence as an XDCAM MXF OP1A file onto the EVS/Avid FTP server. The file naming pattern must be `MobID.mxf`.

   The EVS/Avid FTP server receives the `MobID.mxf` file.
4. Based on the Avid MobID received, the EVS/Avid FTP server gets the sequence metadata (Tape ID, VARID, Sequence Name) from the Avid Interplay DB.
5. Based on the Xsquare targets configured for the EVS/Avid FTP server and on the folder in which the the `MobID.mxf` file is stored, the EVS/Avid FTP server sends a job to Xsquare.
6. Xsquare sends the job to XTAccess, which retrieves the `MobID.mxf` file and creates the requested target. In the workflow presented, the Xsquare job aims at restoring the video sequence onto the EVS video server.

1.3. Requirements & Installation

Requirements

The following hardware and software requirements need to be fulfilled in a workflow including the EVS/Avid FTP server:

- Xsquare 3.0 or higher
- Avid Interplay 3.0 or higher
- Workstation hosting the EVS/Avid FTP server:
  - XTAccess workstation (recommended)
  - Windows 7 (32bits or 64bits) or Windows 2008 Server
  - .Net framework 4.5

A workflow including the EVS/Avid FTP server requires the following software versions to be used on EVS server and Avid side:

- Multicam 12.05 or higher.
- Avid Media Composer 7 or higher.

Installation

The following instructions should be met when an EVS/Avid FTP server is set up:

- The EVS/Avid FTP server should be hosted on the XT Access workstation as XTAccess will in all cases retrieve the `MobID.mxf` file to process the Xsquare job.
- The EVS/Avid FTP server should be installed on the computer where the temporary files sent by Avid will be stored.
- The EVS/Avid FTP server is subject to an XSecure license.
- The EVS/Avid FTP server is installed via the EVS Avid Tools installer.

  In the Installation Type window of the installer, select the check box **EVS Avid FTP Server**.

1.4. Configuration Overview

Introduction

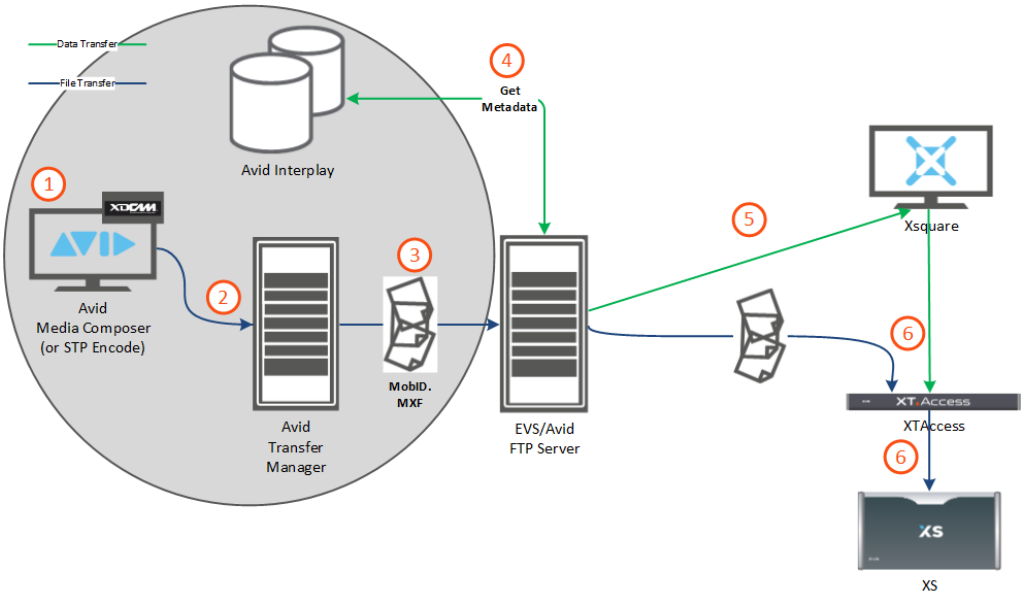
This section presents the configuration steps required to set up a workflow including the EVS/Avid FTP server. The configuration steps are divided into three parts:

- Configuring the interactions between Avid and EVS/Avid FTP Server
- Configuring the EVS/Avid FTP Server
- Configuration the interactions between the EVS/Avid FTP Server and Xsquare/XTAccess

Configuring Interactions Between Avid and FTP Server

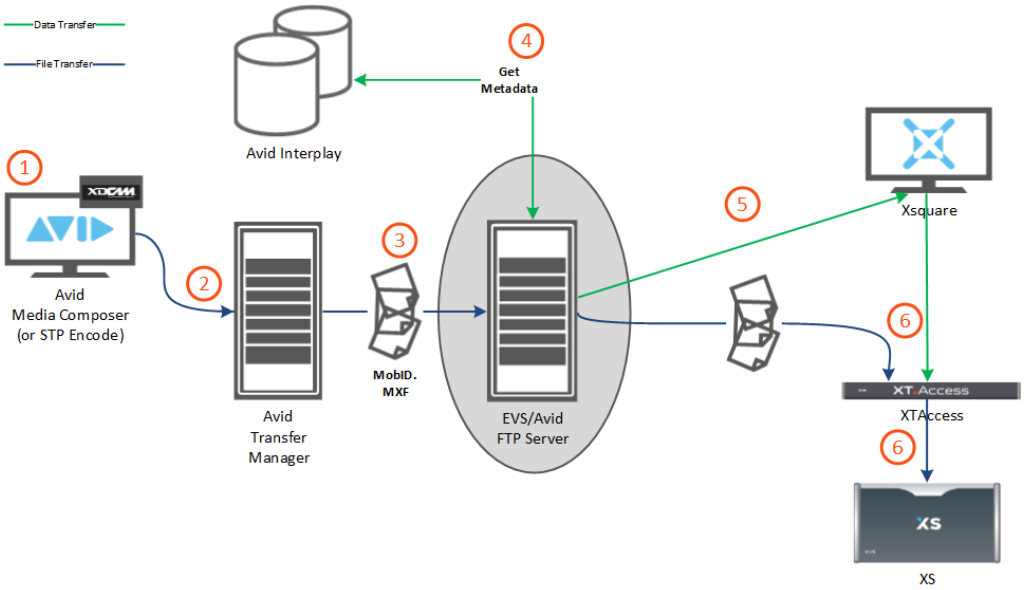
Step #	What to configure?	Where to configure?
1.	Configuring the Connection to the FTP Server folders	Avid Interplay Transfer Engine Configuration
2.	Configuring the Playback Devices for the FTP Server folders	Avid Interplay Transfer Engine Configuration
3.	Configuring the Connection to the Avid Interplay Web Services	EVS/Avid FTP Server Configuration tool

These configuration steps allows to cover the steps 1 to 4 of the functional workflow:



Configuring the EVS/Avid FTP Server

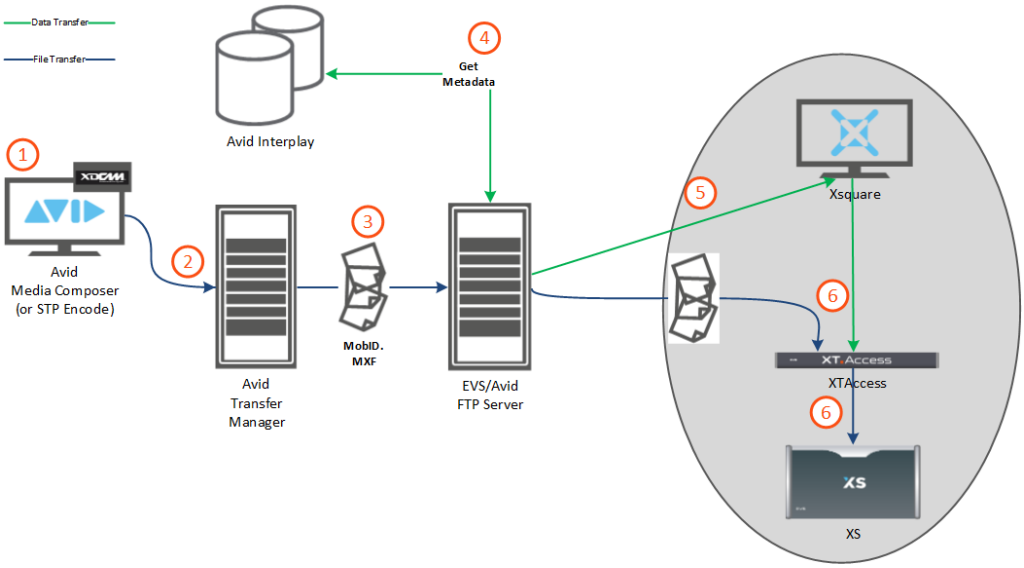
Step #	What to configure?	Where to configure?
1.	Configuring the EVS/Avid FTP Server	EVS/Avid FTP Server Configuration tool



Configuring Interactions Between FTP Server and Xsquare

Step #	What to configure?	Where to configure?
1.	Configuring the Connection to Xsquare	EVS/Avid FTP Server Configuration tool
2.	Configuring the XsquareTargets	Xsquare application
3.	Matching the EVS/Avid FTP Server Folders and Xsquare Targets	EVS/Avid FTP Server Configuration tool

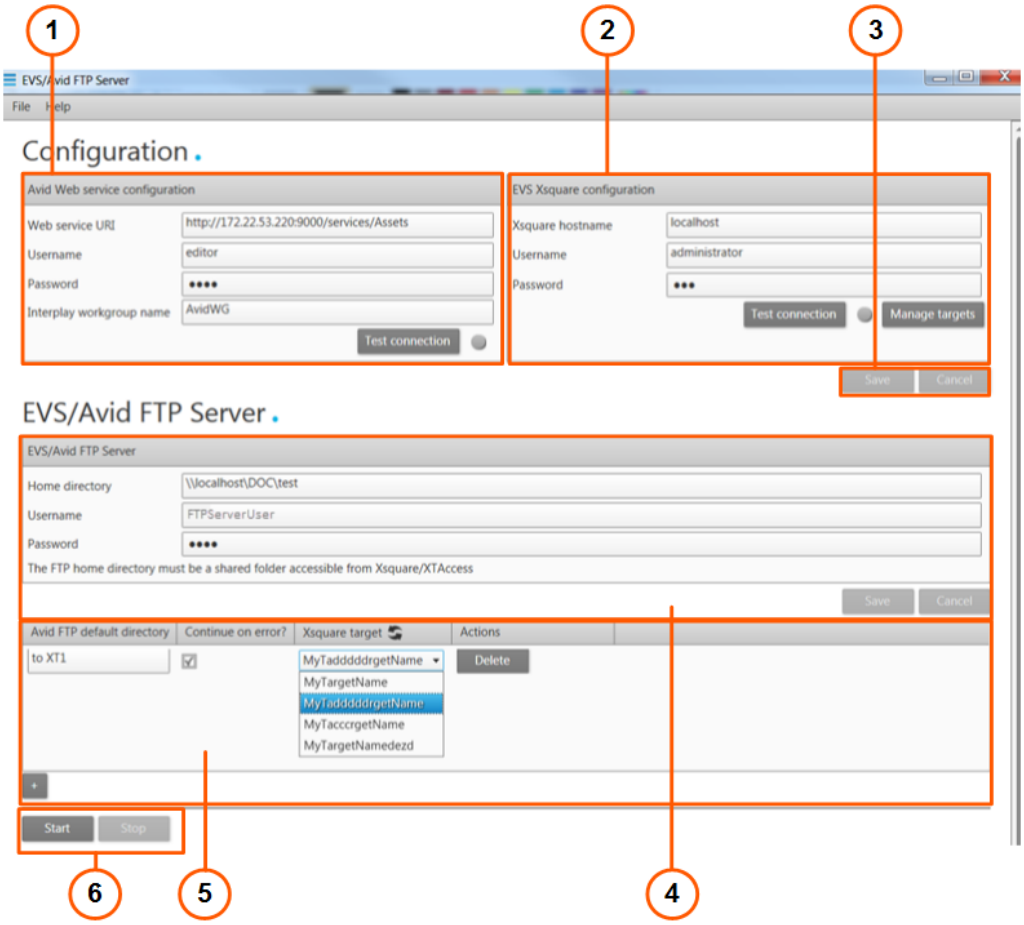
This configuration step allows to cover the steps 5 to 6 of the functional workflow:



1.5. Overview on EVS/Avid FTP Server Configuration Tool

Introduction

The configuration steps presented in the configuration overview are partly performed in the configuration tool of the EVS/Avid FTP Server. This section presents the various areas of this tool:



Area Description

The table below describes the various parts of configuration tool of the EVS/Avid FTP server:

Part	Name	Description
1.	Avid Web Service area	Allows users to configure the connection to the Avid Web Services. See section "Configuring the Connections to the Avid Interplay Web Services" on page 12.
2.	EVS Xsquare area	Allows users to configure the connection to the Xsquare application. See section "Configuring the Connection to Xsquare" on page 14.
3.	Configuration buttons	Allow users to save the configuration parameters.
4.	EVS/Avid FTP Server area	Allows users to configure the EVS/Avid FTP server. See section "Configuring the EVS/Avid FTP Server" on page 13.
5.	Folder Management area	Allows users to create sub-folders under the EVS/Avid FTP server root folder, and match each created folder to an Xsquare target. See section "Matching EVS/Avid FTP Server Folders and Xsquare Targets" on page 15.
6.	Start/Stop buttons	Allows users to start or stop the EVS/Avid FTP server.

2. Configuring Interactions Between Avid and FTP Server

2.1. Configuring the Connections to the FTP Server Folders

Introduction

To allow Avid to connect and send video sequences to the folders created on the FTP server, you need to configure **FTP Server** destinations in Avid Interplay.

You need to configure an FTP server destination for each folder you want to send content to on the EVS/Avid FTP server.

In other words, if you define three destination folders on the EVS/Avid FTP server, you need to configure three FTP Server destinations in Avid.

Procedure

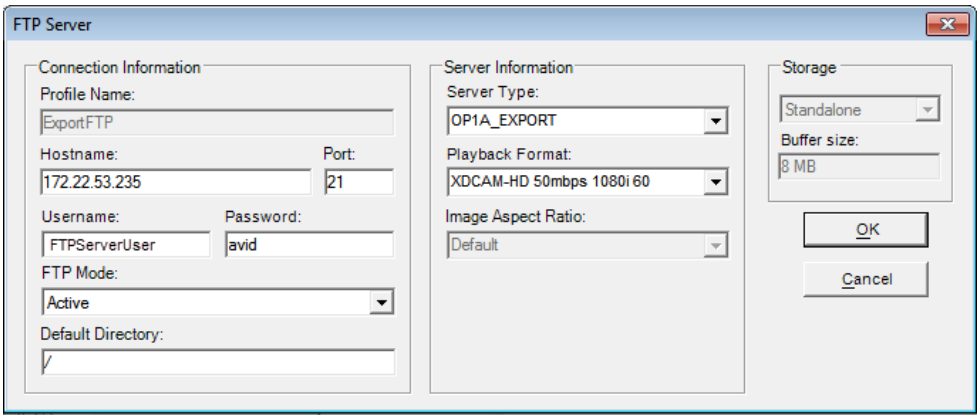
To configure an FTP server destination in Avid for a sub-folder of your EVS/Avid FTP server, proceed as follows:

1. In the Avid Interplay Transfer Engine Configuration window, click the **Configure FTP Servers** button.

   The FTP Configuration window opens.

2. In the FTP Configuration window, click **Add** to add an FTP server.

   The FTP Server window opens:



3. In the FTP Server window, fill in the following fields as specified below:
   - As **Profile Name**, it is recommended to have the same name as the FTP server folder you will send content to. You will no longer be able to change it once the FTP server is created.
   - As **Hostname**, type the IP Address of the computer that hosts the EVS/Avid FTP server, and through which Avid connects to the FTP server.
   - As **Port**, type **21** which is the communication port to be used.
   - As **Username** and **Password**, type the credentials to connect to the EVS/Avid FTP server.
   - As **FTP Mode**, select **Active**.
   - As **Default Directory**, type the path, below the root folder, to the sub-folder on the EVS/Avid FTP server you want to send content to.
   - As **Server Type**, select **OP1A_EXPORT**.
   - As **Playback Format**, select **XDCAM-HD 50mbps 1080i 60**.
4. Click **OK** to add the FTP server with the parameters you have entered.

An FTP server destination is created in Avid for the specified sub-folder of the EVS/Avid FTP server.

You can still modify most of the FTP server parameters once it has been created.

2.2. Configuring the Playback Devices for the FTP Server Folders

Introduction

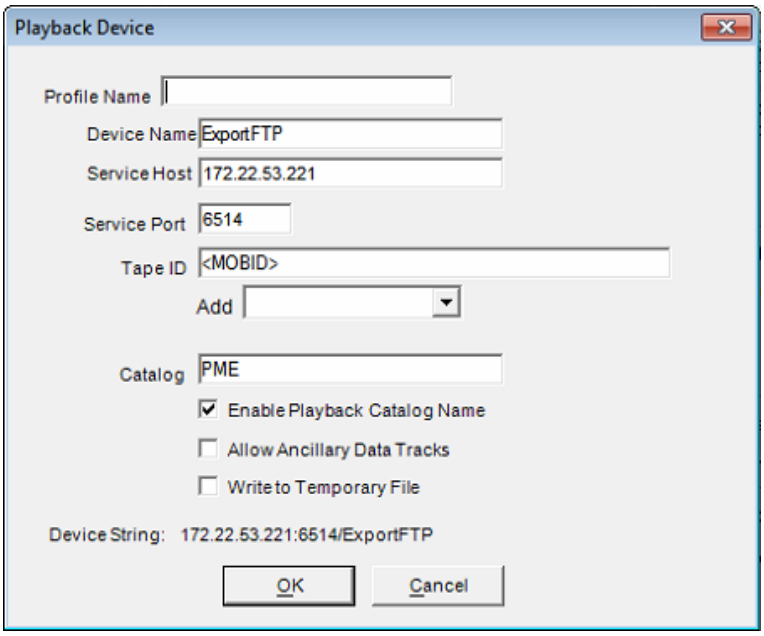
To allow Avid users to select, in Media Composer, an FTP Server destination that corresponds to one folder on your EVS/Avid FTP server, you need to create a Playback Device for each FTP Server destination created in Avid.

Procedure

To configure a playback device for an FTP Server destination, proceed as follows:

1. In the Avid Interplay Transfer Engine Configuration window, click the **Add** button in the Playback area.

   The Playback Device window opens:



2. In the Playback Device window, fill in the following fields as specified below:
   - As **Profile Name**, it is recommended to use the same name as the FTP Server destination for consistency's sake.
   - As **Device Name**, type the name of the FTP Server destination you have configured in Avid.
   - As **Service Host**, type the IP address of the Avid Transfer Engine that will take care of the file transfer to the EVS/Avid FTP server.
   - As **Server Port**, type the port number to be used by the Avid Media Composer to communicate with the Avid Transfer Engine.
   - As **Tape ID**, Type **<MOBID>**.

3. Click **OK** to add the playback device with the parameters you have entered.

Once a playback device is created for an FTP Server destination, this destination will be available in the **Send to** command in Avid Media Composer.

2.3. Configuring the Connections to the Avid Interplay Web Services

Introduction

To allow the EVS/Avid FTP server to connect to Avid Interplay to retrieve the metadata associated to the MobID.mxf files received, you need to specify the Avid connection parameters in the EVS/Avid FTP server, in the Avid Web Service Configuration area:

Procedure

To configure the Avid connection on the EVS/Avid FTP server, proceed as follows:

1. Open the configuration tool on the workstation hosting the EVS/Avid FTP server.
2. In the Avid Web service configuration area, fill in the parameters as follows:
   - As **Web service URI**, type the path to identify the location of the Avid Web service. The path is based on the following pattern where the information between brackets is specific to the setup: `http://[WS IP Address]:[WS port]/services/Assets`
   - As **Username** and **Password**, type the credentials to connect to Avid Web services.
   - As **Interplay workgroup name**, keep the default value, that is **AvidWG**.
3. Click the **Test Connection** button to check the connection to the Avid Web services.

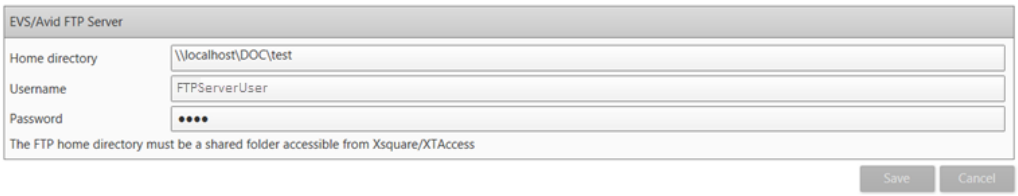
If the connection can be established, the **Status** bullet next to the **Test Connection** button is green. In case the **Status** bullet is not green, please check again the connection parameters.

3. Configuring the EVS/Avid FTP Server

Introduction

This section covers the parameters to be defined to configure the EVS/Avid FTP server as such.

You configure the EVS/Avid FTP server in its configuration tool, in the EVS/Avid FTP server area:



Procedure

Note
As the temporary video files will go through the EVS/Avid FTP server as they are processed, it is highly recommended that the **Home directory** be located on the workstation where the EVS/Avid FTP server is installed.
This will save bandwidth on the network.

To configure the EVS/Avid FTP server, proceed as follows:

1. Open the configuration tool on the workstation hosting the EVS/Avid FTP server.
2. In the EVS/Avid FTP server area, fill in the parameters as follows:
   - As **Home directory**, type the path to the folder where the temporary files sent by Avid will be stored. The home directory must be a shared folder accessible from Xsquare/XTAccess.
   - as **Username** and **Password**, type the username and password to be used to access the FTP server.
3. Click the **Save** button to save the parameters you have defined.

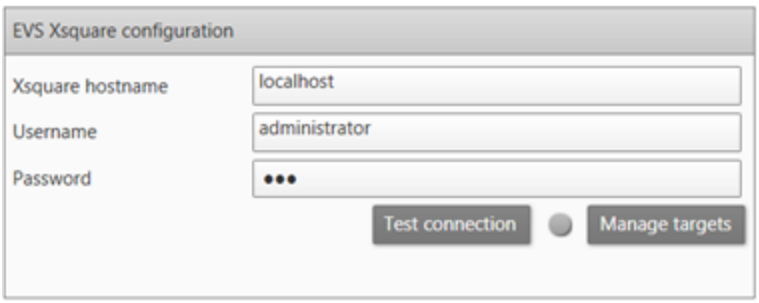
4. Configuring Interactions Between Xsquare and FTP Server

4.1. Configuring the Connection to Xsquare

Introduction

To allow the EVS/Avid FTP server to connect to and send job requests to Xsquare, you need to specify the credentials to access Xsquare.

You configure the connection to Xsquare in the configuration tool of the EVS/Avid FTP server, in the EVS Xsquare Configuration area:



Procedure

To configure the connection to Xsquare, proceed as follows:

1. Open the configuration tool on the EVS/Avid FTP server.
2. In the EVS Xsquare configuration area, fill in the parameters as follows:
   - As **Xsquare hostname**, type the UNC path to the workstation and folder where Xsquare is installed.

     It will be `localhost` if Xsquare is located on the same workstation as the EVS/Avid FTP server.
   - As **Username** and **Password**, type the credentials of an administrator login to Xsquare.
3. Click the **Test Connection** button to check the connection to Xsquare.

If the connection can be established, the **Status** bullet next to the **Test Connection** button is green. In case the **Status** bullet is not green, please check again the connection parameters.

4.2. Configuring the Xsquare Targets

After you have specified how to access Xsquare, you need to configure the targets the EVS/Avid FTP server will use. You will create the requested targets in Xsquare, or check whether the requested targets already exist.

The **Manage Targets** button allows you to open the Xsquare user interface from the EVS/Avid FTP Server.

As you define the targets relevant for the EVS/Avid FTP server, make sure that the FTP server will be able to see these targets with the credentials configured on the EVS/Avid FTP server to access Xsquare.

Please refer to the Xsquare user manual for more information about defining targets.

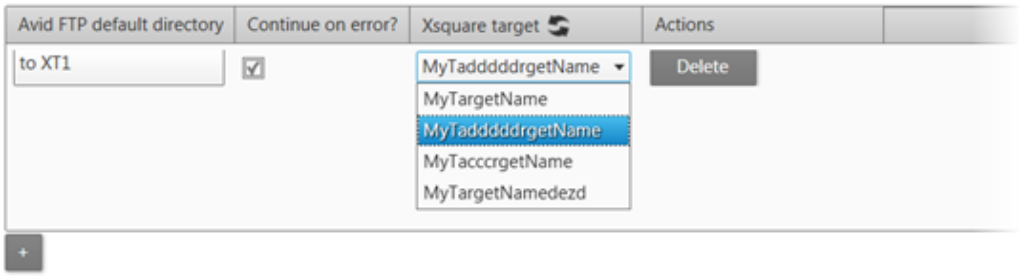
4.3. Matching EVS/Avid FTP Server Folders and Xsquare Targets

Introduction

You need to associate each folder you create on the EVS/Avid FTP server to an Xsquare target.

This allows the EVS/Avid FTP server to automatically trigger the associated target job for each `MobID.mxf` file sent by Avid into the given folder.

You will create and match the folders in the configuration tool of the EVS/Avid FTP server, in the Folder Management area:



Procedure

To create a folder on an EVS/Avid FTP server folder, and match it to an Xsquare target, proceed as follows:

1. Open the configuration tool on the EVS/Avid FTP server.
2. In the Folder Management area, click the **+** button to create a new destination folder on the EVS/Avid FTP server and name it.
3. Select **Continue on Error** if you want to restore the `MobID.mxf` file even if the file metadata could not be retrieved from the Avid Interplay DB.

4. In the **Xsquare target** field, select the Xsquare target the files stored in the specified folder have to be processed with.
5. Repeat steps 2 to 4 for each new folder you want to define on the EVS/Avid FTP server.

When you have configured all your folders on the EVS/Avid FTP server, as well as all other steps in the configuration, you can click **Start** to launch the EVS/Avid FTP server. Make sure that Xsquare and the Avid components are all up and running on your setup.

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